

# ScotBowl 2019

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## Packet 8: It's awesome apart from the stuff which is dumb

1. *This Is What I Do* and *Global Warming* are two of the latest albums by which jazz artist? He recorded *Work Time* with drummer Max Roach and received acclaim for his live album *A Night at the Village Vanguard*, before establishing himself as a prominent figure in hard bop with an album that includes the tracks *Strode Rode* and *St Thomas*, titled *Saxophone Colossus*.

ANSWER: Sonny **Rollins** (or Walter Theodore **Rollins**) <DA>

2. “What a fool I was! I was only a puppet, and so was Ulster, and so was Ireland, in the political game that was to get the Conservative Party into Power.” Who said this in a speech against the Anglo-Irish treaty? The first to sign the Ulster Covenant that promised to use “all means necessary” to oppose home rule, he led the Unionist Party from 1910 to 1921. Born in Dublin, he was also a barrister, notably representing the Marquess of Queensbury in the libel trial brought by Oscar Wilde.

ANSWER: Edward **Carson** <RCH>

3. According to an inscription on its pedestal, the Bassetki statue used to stand in the palace of Naram-Sin in which city? Until the decipherment of cuneiform, it was known only by a single reference in Genesis 10:10. Its exact location is unknown, but is believed to be somewhere on the east bank of the Tigris. This ancient capital city names an empire which collapsed around the 22nd century BC, whose first ruler was Sargon.

ANSWER: **Akkad** <MB>

4. What specific events, as took place in Makin [ma-KEEN] in 2009, are one of the key focuses of the Forensic Architecture project based at Goldsmiths' College? In 2018, the Venezuelan government claimed that an attack on President Maduro was attempted via this method. The so-called “disposition matrix” is associated with these events, which Noam Chomsky argued would be Obama’s main foreign policy legacy, and amounted to war crimes.

ANSWER: **drone strikes** <CH>

5. What country is the birthplace of the pioneer of microtonal music who wrote a “symphony for four pianos” entitled *Thus Spake Zarathustra*, and *24 Preludes in Quarter-Tone System*? The bayan, a type of accordion from this country, features prominently in pieces by the composer of *The Canticle of the Sun* and *Offertorium*, Sofia Gubaidulina.

ANSWER: **Russia** (accept **Soviet Union**, or **USSR**; accept **Russian Federation**, or **Russian Empire**) <DA>

6. David Maxwell Fyfe and David Alton are among the MPs with seats in which city? The Father of the House from 1918 to 1929 and also the only Irish Nationalist to be elected on the island of Great Britain, T.P. O'Connor, also represented it. Its Labour council was denounced by Neil Kinnock in a conference

speech of 1985, after issuing 90 day notices to its 30,000 staff, as part of a stand-off with the Thatcher government over the council budget.

ANSWER: **Liverpool** <RCH>

7. Which German physicist and mechanical engineer was a recipient of the Barnard Medal for Meritorious Service to Science for his refusal to take out patents related to his main discovery? The Royal Swedish Academy of Sciences granted this figure the Nobel Prize in Physics in 1901, the first time the award had been presented, "In recognition of the extraordinary services he has rendered by the discovery of the remarkable rays subsequently named after him."

ANSWER: Wilhelm **Röntgen** <JW>

8. Which writer supposedly sold more books than Charles Dickens during their lifetimes, and is one of the main historical sources about Queen Victoria's coronation? One of the most famous writers in the world during her lifetime for works such as anti-slavery tract *Life in America*, who is this writer better known today for her translations of Auguste Comte and early writings on women's rights? She is considered by many to be the first female sociologist.

ANSWER: Harriet **Martineau** [martin-oh] <CH>

9. Hobyot, Harsusi, Mehri, and Rahizi are some of the languages in the South subdivision of which language branch? One abugida used to write languages from this family is the Ge'ez script. The only official language of the EU from this branch, and one of the few to use the Latin script, is Maltese. Named for a son of Noah, it includes languages like Tigrinya, Amharic, and Aramaic.

ANSWER: **Semitic** languages (accept **South Semitic** before the word "South" is read) <MB>

10. Both of these artists painted portraits of Mary Robinson as Perdita which hang together in the Wallace Collection. After one said that "masses of light" should never be blue, the other responded by making blue the central theme of arguably his most famous painting. Who are these rival artists who competed for patronage in the 18th century, one the president of the Royal Academy of Arts who painted *The Brown Boy* in his "Grand Style", and the other who painted *The Blue Boy*?

ANSWER: Joshua **Reynolds** and Thomas **Gainsborough** (both answers required) <CH>

11. What object links: the first president of Nauru; the title of a treatise, which according to Diarmaid MacCulloch was written to justify one of its authors who was expelled by the bishop of Innsbruck as a "senile old man" after his failed attempts to prosecute witches; the revolutionary pseudonym of the Soviet foreign minister who signed the Nazi-Soviet pact; and the winning commanders at the battles of Falkirk, and of Tours?

ANSWER: **hammer** (or **mallet** or obvious equivalents, do not accept "Molotov" or "Martel"; Hammer Deroburt, Malleus Maleficarum, Molotov, Edward I (Hammer of the Scots), Charles Martel) <RCH>

12. If  $p$  were a program that performs this task, then one could construct a program  $q$  such that  $p$ , evaluated on  $q$  with  $q$ 's input being the source code of  $q$ , outputs a contradiction; hence, this task is impossible in general. What is this problem concerning Turing machines, which, if it were decidable, would imply the solution of Goldbach's conjecture and the computability of the Busy Beaver function?

ANSWER: solving the **halting problem** (accept answers indicating the determination of whether a program halts or stops or terminates) <VB>

13. Pablo Neruda once said that those who do not read this author are suffering from “a serious invisible disease”. Who is this author of *The Devil's Drool*, a short story which served as the basis for Antonioni's film *Blow-up*? His most famous work is a “counter-novel” that opens with a “Table of Instructions” for navigating the total of 155 total chapters which can be read non-linearly.

ANSWER: Julio **Cortázar** <VB>

14. *Yellow Coat* by Screamin' Jay Hawkins provided the inspiration for the name of what band? Recurring motifs in their output include the “Going to...” series of songs, examples of which appear on the albums *Zopilote Machine* and *Nothing For Juice*, and the “Alpha Couple”, whose relationship is the focus of the 2002 album *Tallahassee*. For most of the 1990s, they recorded lo-fi music on a boombox owned by sole band member John Darnielle [dar-neel].

ANSWER: The **Mountain Goats** <MB>

15. Comprising a body, two greater horns and two lesser horns, which U-shaped bone's purpose is to allow a wider range of tongue, pharyngeal, and laryngeal movements by bracing them against each other? Located between the chin and the thyroid cartilage, it is unusual in not articulating directly with any other bones, only being loosely anchored to them by connective tissue.

ANSWER: **hyoid** bone <EM>

16. The track for what annual racing event contains corners named, rather grimly, after competitors who have crashed and died while navigating them? These include Brandish corner, and Guthrie's memorial. Joey Dunlop has won a record 26 races at this event, and his son Michael Dunlop has also won the senior race at this motorcycle race, which started due to speed restriction laws on mainland Britain.

ANSWER: **Isle of Man TT** (or **Isle of Man Tourist Trophy**, need both **Isle of Man** and **TT**, prompt on partial answer) <CH>

17. In 1958 the sociologist Michael Young created what educational concept to satirise the new tripartite model of education? Young argued that this type of society where the intelligent and abled accrue social benefits at the expense of the less abled would merely replace the current class system with an equally unjust one.

ANSWER: **meritocracy** <CH>

18. What word connects: a distribution that is zero at all but one point, but has integral one; the Australian singer of *Born to Try* and *Lost Without You*; a geographical feature that links Marajo island in Brazil and the city of Naucratis in Egypt; a 1986 film starring Chuck Norris and Lee Marvin; an airline based in Atlanta, Georgia; and in the NATO phonetic alphabet, the word for “d”?

ANSWER: **delta** (Dirac delta, Delta Goodrem, river delta, Delta Force) <RCH>

19. Georg Friedrich Hegel, Heinrich Heine and Alexander von Humboldt were among the attendees of a performance of which piece at the Berlin Sing-Akademie on March 11th, 1829? The first time it had been performed outside of Leipzig, to make it more accessible 10 arias, four recitatives and six chorales were cut by the conductor, Felix Mendelssohn.

ANSWER: J. S. Bach's **St Matthew Passion** (or **Matthäus-Passion**, or **Passio Domini nostri J.C. secundum Evangelistam Matthæum**; prompt on **Bach's passion**) <RCH>

20. “Giant Dad”, named after the item Mask of the Father, is a meme build in which game series? Its bosses include The Pursuer, who can be killed with a ballista in the Forest of Fallen Giants, and Iudex

[yoo-dex] Gundyr, the massive halberd wielding “tutorial boss” of the third instalment. Developed by FromSoftware, this incredibly difficult trilogy of third-person RPG games is a spiritual successor to *King’s Field* and *Demon’s Souls*.

ANSWER: **Dark Souls** (accept just **Souls** until “third instalment” is read, prompt otherwise) <MB>

21. Who said “My wars always start in victory, only to end in defeat”? Brought to power by Prince Schwarzenburg, his early reign saw a series of foreign policy blunders, including the loss of Lombardy and Venice, and Bismarck’s unification of Germany. His later reign was filled with personal tragedies, among them his wife Elizabeth’s assassination in 1898, and his son and heir Rudolf’s apparent murder-suicide at Mayerling castle.

ANSWER: **Franz Josef I** (or **Francis Joseph I**) <RCH>

22. Which television personality interviewed the proprietor of *The Restaurant with no Name*, at which Jacques Derrida regularly dines? In a pitch to two RTE executives he declared that U2’s *Sunday Bloody Sunday* “really encapsulates the frustration” of the day. As a sports correspondent, he described a striker as “having a foot like a traction engine”, and he now presents the midmorning programme on the radio channel North Norfolk Digital.

ANSWER: Alan **Partridge** <RCH>

23. Charlotte Perkins Gilman wrote a trio of speculative novels describing societies based on what specific feature? In most versions of the myth, Rome was an example of one of these societies prior to the rape of the Sabine women, as were the Amazons of Greek myth.

ANSWER: **single gender** society (accept women-only society and male-only society) <CH>

24. About which book did G.K. Chesterton say “The riddles of God are more satisfying than the solutions of man”? In it, the title character declares “I know that my Redeemer liveth” and God speaks from the whirlwind, asking “Where wast thou when I laid the foundations of the earth?” Other characters include the three comforters, Eliphaz, Bildad and Zophar.

ANSWER: **Job** <RCH>

25. Hermann Staudinger was the first to correctly theorise that they were held together by covalent bonds rather than being colloidal, and Paul Flory helped to describe their behaviour in solutions. The radius of gyration and Kuhn length help to characterise what molecules, whose biological examples include rubber and DNA, and which consist of many repeating units?

ANSWER: **polymers** <EM>

26. What concept links the following philosophical works: *The Principles of [this thing]* by R. G. Collingwood, *Languages of [this thing]* by Nelson Goodman, *[This thing] and its Objects* by Richard Wollheim, *[This thing] as Experience* by John Dewey, *On the Origin of [this thing]* by Martin Heidegger and *[This thing] in the Age of Mechanical Reproduction* by Walter Benjamin?

ANSWER: **art** (accept **work of art**) <VB>

27. Which animal appears on the khepresh, also known as the Blue Crown or the War Crown? A stylised version of this animal also appears on the deshret and the pschent crowns, appearing on the latter together with a stylised vulture. The symbol of the goddess Wadjet, the protector of Lower Egypt, it is often seen balancing a sun disk on its head, and this snake is typically depicted rearing and ready to strike.

ANSWER: **Uraeus** (accept **cobra** or **asp** or **aspis**, prompt on snake or serpent before read) <MB>

28. With its local origin myth supported by the presence of an identical structure in Fingal's Cave, what World Heritage Site in County Antrim was the result of an ancient volcanic fissure eruption? Contracting and fracturing as it cooled, lava formed basalt pillars up to twelve metres high, often with a distinctive hexagonal shape.

ANSWER: the **Giant's Causeway** (accept **Clochán an Aifir** [AFF-er]) <FW>

29. Which poet, often ranked as one of the three canonical poets of Latin literature, was considered by Quintilian to be the last of the Latin love elegists? This man who suggested "a poem and a mistake" as the reasons for his exile by Augustus wrote elegiac couplets regarding *The Art of Love* and *The Roman Calendar*, as well as one of the most important sources on classical mythology, *The Metamorphoses*.

ANSWER: Publius **Ovid** Naso <JW>

30. Father John Misty announced an intention to cover what album, to be performed completely in the style of The Velvet Underground? A song in this album contains a line which is commonly misheard as "All the lonely Starbucks lovers". Largely influenced by 80s synth pop in a sharp departure from the country style of previous records by its artist, this album includes the hit singles *Wildest Dreams*, *Bad Blood* and *Shake it Off*.

ANSWER: **1989** (by Taylor Swift) <CH>

1. Three bonuses on poets from the same movement. For five points each:

[5] Appearing on the cover of June 1967 *Time* issue in which he was praised as "the best American poet of his generation", who is often grouped with poets such as John Berryman, Anne Sexton and W.D. Snodgrass as an example of the Confessional poetry movement?

ANSWER: Robert **Lowell**

[5] The lyrical hero of this poem by Lowell confesses to watching lovers in their cars "where the graveyard shelves on the town" before admitting that his "mind's not right". It concludes with the image of figures taken to represent liberation, for which Lowell strived.

ANSWER: **Skunk Hour**

[5] *Skunk Hour* was inspired by this author's poem *Armadillo*, with whom Lowell corresponded over many years. Those letters has been described as "awful but cheerful", a line from this poet's *The Bight*.

ANSWER: Elizabeth **Bishop** <VB>

2. Three bonuses on single-gene genetic disorders. For five points each:

[5] Which autosomal dominant genetic disorder, occurring in approximately 1 in 15,000 people, causes the death of brain cells? It is characterised by cytosine-adenine-guanine trinucleotide repeats in the HTT gene.

ANSWER: **Huntington's** disease (or **Huntington's chorea** or **HD** or **Saint Vitus' Dance**)

[5] Which autosomal recessive genetic disorder not only causes the buildup of mucus in the lungs but can also affect the liver, kidneys, and intestines? It is often diagnosed by measuring chlorides in the sweat test.

ANSWER: **cystic fibrosis** (or **CF** or **mucoviscidosis**)

[5] Which X-linked recessive disorder impairs blood coagulation? Due to its association with European royalty, it is often referred to as "the royal disease".

ANSWER: **haemophilia** <JW>

3. Three bonuses on animation. For five points each:

[5] *Hedgehog in the Fog* and *Tale of Tales* are animated shorts by which Russian director? He has been working on an adaptation of Gogol's *The Overcoat* for almost 40 years.

ANSWER: Yuri **Norstein**

[5] *Insects* is the latest movie by Jan Švankmajer, also known for his stop-motion film about a tree stump that comes to life, *Little Otik*, and for his sinister adaptation of what Lewis Carroll novel?

ANSWER: **Alice's Adventures in Wonderland** (prompt on just *Alice*)

[5] *Rejected*, presented as a series of failed commercials for the Family Learning Channel and Johnson & Mills, is a short film by which director of *World of Tomorrow*? His first feature is the absurdist comedy-drama *It's Such a Beautiful Day*.

ANSWER: Don **Hertzfeldt** <DA>

4. Three bonuses on Dutch geography. For five points each:

[5] This former bay, which means "Southern Sea" in Dutch, was artificially closed off from the North Sea to create the IJsselmeer [AY-sel-mayr].

ANSWER: **Zuiderzee** [ZOU-der-zay].

[5] This dam and causeway, constructed in the late 1920s and early 1930s, cuts off the Zuiderzee from the North Sea.

ANSWER: **Afsluitdijk** [af-slout-dayk].

[5] Land reclamation from the former Zuiderzee involved the construction of these large tracts of lowland, separated from water by dikes.

ANSWER: **polders** <MB>

5. Three bonuses on a US president. For five points each:

[5] "Should any political party attempt to abolish social security, you would not hear of that party again. There is a tiny splinter group, of course, that believes you can do. Their number is negligible and they are stupid." Which president wrote this? Among his accomplishments are the beginnings of the US interstate motorway system.

ANSWER: Dwight **Eisenhower**

[5] In which city did Eisenhower order the National Guard to protect nine African Americans as they became the first to attend Central High School? The Governor, Orval Faubus, had commanded the Guard to "preserve the peace" by blocking the students from entering.

ANSWER: **Little Rock**

[5] In his farewell address, what precise three word phrase did Eisenhower warn against the "unwarranted influence" of?

ANSWER: **Military-Industrial Complex** (or **MIC**) <RCH>

6. Three bonuses on Mackintosh buildings in Glasgow. For five points each:

[5] Queens Cross Church, sometimes called "The Mackintosh Church", is located in which area of Glasgow? It is notable for being the filming location where Begbie threw a pint glass off a balcony, and as the home of Partick Thistle.

ANSWER: **Maryhill**

[5] The Mackintosh-designed "House for an Art Lover" is located in which Southside Park? It was built in 1996 and is based upon a 1901 design by Mackintosh.

ANSWER: **Bellahouston** Park

[5] Mackintosh's masterpiece was usually considered to be the library at which educational institution? It was tragically destroyed by two fires in May 2014 and June 2018.

ANSWER: **Glasgow School of Art** (or **GSA**) <CH>

7. Three bonuses on characters from children's books. For five points each:

[5] Her livelihood sustained by a suitcase full of gold coins and her full name including Delicatessa Windowshade Mackrelmint, who is this girl possessing enough strength to lift a horse with one arm?

ANSWER: **Pippilotta** Delicatessa Windowshade Mackrelmint Ephraim's Daughter **Longstocking** (accept **Pippilotta** Viktualia Rullgardina Krusmynta Efraimdotter **Långstrump**)

[5] Pippi Longstocking was created to entertain this writer's daughter on days she was off school ill. Her other characters include Emil of Lönneberga and the six Bullerby children.

ANSWER: Astrid **Lindgren**

[5] This other Lindgren character, who featured in iconic Soyuzmultfilm animated films, befriends Svante Svantesson and eventually gains begrudging respect of the dour housekeeper Freken Bok.

ANSWER: **Karlsson-on-the-Roof** <VB>

8. Three bonuses on plant-based manuscripts. For five points each:

[5] Leaves of this tree, known as rontal in Indonesia, were used to write a number of kakawin, or narrative poems, during the Majapahit period. This plant also provided material for plaited mats, wrappers, water scoops, ornaments and ritual tools.

ANSWER: **palm** (or **Araceae**, or any specific palm species such as **talipot**)

[5] The use of bark of this tree as writing material in Asia goes back to the Gandhāran Buddhist texts, while in Veliky Novgorod the boy Onfim used it to write notes, drawings, and his homework. A letter written on the bark of this tree is the oldest known document in any Finnic language.

ANSWER: **birch** (or **Betula**)

[5] Amatl is a type of bark paper that has been used in this country since pre-contact times. The manuscript known as the Huexotzincó [waych-awt-SINK-oh] Codex contains evidence of the alliance with Hernán Cortés of the Nahuatl people in this modern-day country.

ANSWER: **Mexico** (or **Estados Unidos Mexicanos**, or **México**) <DA>

9. Three bonuses on electromagnetism. For five points each:

[5] Born in Edinburgh in 1831, which scientist brought about what was later called the “second great unification of physics” through his namesake equations?

ANSWER: James Clerk **Maxwell**

[5] Named for a Dutch physicist, what force describes the combination of electric and magnetic forces on a point charge, first implicitly described by Maxwell?

ANSWER: **Lorentz** force

[5] A derivation of one of Maxwell’s equations leads to the result that a conductor with resistance R at equilibrium will have what value of electric charge Q in its interior?

ANSWER: **zero** <FW>

10. Three bonuses on Biblical Patriarchs. For five points each:

[5] Which Biblical Patriarch, the third son of Adam and Eve and having a name which means “placed” or “appointed”, was thought by his mother to be a divinely ordained replacement for his murdered elder brother? According to the Book of Genesis, he lived to be 912.

ANSWER: **Seth**

[5] Seth was the second of which group of Patriarchs? The tenth and final member of this group was Noah.

ANSWER: **Antediluvian** Patriarchs (or **Pre-Flood** Patriarchs or **Patriarchs before the Flood**)

[5] Which Patriarch of the Israelites had a name meaning “he will laugh”? He was the second of the three Patriarchs of this group and, unlike his father and son, was the only one whose name was not altered.

ANSWER: **Isaac** (or **Yitzhak**) <JW>

11. Three bonuses on a classical instrument in classic 60s rock and pop. For five points each:

[5] What instrument plays the melodic introduction at the beginning of *God Only Knows* by The Beach Boys?

ANSWER: **French horn**

[5] Primarily a bass player, John Entwistle performed some hot French horn solos on which band’s tracks *Pictures of Lily*, *I’m a Boy* and *My Wife*?

ANSWER: **The Who**

[5] A melancholic French horn features on the original recording of *A Change Is Gonna Come*, a track by which American artist? He also performed hits such as *You Send Me* and *Bring It On Home To Me*, and also did not know much about history, biology, or slide rules?

ANSWER: Sam **Cooke** <CH>

12. Three bonuses on a battle and its aftermath. For five points each:

[5] Which battle of 378 CE was fought between the forces of the Eastern Roman Empire and the Goths? It is seen as one of the precipitous events of the fall of the Western Roman Empire.

ANSWER: Battle of **Adrianople** (or Battle of **Hadrianople**)

[5] Which Roman Emperor, the commander at Adrianople, was killed during the fighting?

ANSWER: **Valens** [vay-luhns]

[5] Who succeeded Valens as emperor following his death at Adrianople? This man was the last to rule over both the Eastern and Western Roman Empires.

ANSWER: **Theodosius the Great** (or **Theodosius I**. Prompt on just Theodosius) <JW>

13. Three bonuses on a sport. For five points each:

[5] What major event took place as a result of a meeting of 22 club representatives at the George Hotel in Huddersfield on the 29th April, 1895?

ANSWER: the **rugby schism** (description acceptable, equivalent to founding of the sport of Rugby League)

[5] The schism was caused by the refusal of the Rugby Football Union to permit what? The RFU eventually allowed this practice in 1995.

ANSWER: **professionalism** (accept synonyms and word forms)

[5] Two years after the schism, 13,000 people watched the first ever final of what competition at Headingley? This is the premier cup competition of English Rugby League, with the final traditionally taking place at Wembley since 1929.

ANSWER: **Challenge Cup** <CH>

14. Three bonuses on paintings by Francisco de Goya with a political subject. For five points each:

[5] A figure in white and yellow facing a firing squad outstretches his arms in what painting? It depicts the execution of a group of citizens who had rebelled against the French occupation of Spain in the Peninsular War.

ANSWER: *The **Third of May 1808*** (or *El **tres de mayo** de 1808 en Madrid*, or ***Los fusilamientos de la montaña del Príncipe Pío***, or *Los fusilamientos del **tres de mayo***; prompt on partial answers, do not accept or prompt on “*The Second of May 1808*”)

[5] What series of 82 prints did Goya create as a protest against the repression of the liberal cause following the Restoration of the Bourbon Monarchy? Its title refers to depictions of starving citizens, bodies awaiting burial, a garrotted priest, and a man about to behead a soldier with an axe.

ANSWER: ***The Disasters of War*** (or ***Los desastres de la guerra***, or ***Fatal consequences of Spain's bloody war with Bonaparte, and other emphatic caprices***, or ***Fatales consecuencias de la sangrienta guerra en España con Buonaparte, Y otros caprichos enfáticos***)

[5] Goya's earlier painting *La maja y los embozados* shows four men wearing long capes and broad-brimmed hats, whose prohibition ignited this revolt, also caused by the rising costs of bread and coal. A priest can be seen in another 1766 painting attributed to Goya trying to calm the masses.

ANSWER: **Esquilache** Riots (or Motín de **Esquilache**) <DA>

15. Three bonuses on a philosophical concept. For five points each:

[5] What term is used to denote a fact which has no explanation, cannot be explained in principle or has no cause for existing? For example, the Big Bang is such a fact if we assume it was not caused by anything.

ANSWER: **brute fact**

[5] Which thinker illustrated the notions of brute and institutional facts in an essay about buying potatoes from a grocer? A student of Wittgenstein, she beat C. S. Lewis in a debate so badly that he turned to children's literature afterwards.

ANSWER: G. E. M. **Anscombe** (accept Elizabeth **Anscombe**)

[5] Anscombe is considered a major influence on the revival of which doctrine in the 20th century? Discussed in her monograph *Intention*, it studies such ideas as *arete*, *phronesis* and *eudaimonia*.

ANSWER: **virtue ethics** (prompt on ethics or virtue, prompt on Aristotelian ethics) <VB>

16. Three bonus questions on important concepts in cosmology. For five points each:

[5] This change in light wavelength from faraway sources can be caused by the expansion of the universe. It is so named because longer wavelengths would move towards this colour on the visible spectrum.

ANSWER: **redshift**

[5] This “relic radiation” is a remnant of, and key evidence for, the Big Bang, and is the oldest electromagnetic radiation in the Universe. Its temperature is commonly taken as 2.72 kelvin.

ANSWER: **CMBR** or **cosmic microwave background** radiation

[5] Referred to by its creator as his “biggest blunder ever made”, what term appears in a set of field equations relating gravitation and spacetime in general relativity? Introduced to allow for a static universe and later retracted, it is now thought to have a positive value consistent with vacuum energy.

ANSWER: **cosmological constant** <FW>

17. Three bonuses on people who have been posthumously granted honorary US citizenship. For five points each:

[5] The second ever award of an honorary American citizenship was made to this Swedish diplomat, who disappeared without trace in 1945, known for his efforts in saving Jews from the Holocaust,.

ANSWER: Raoul **Wallenberg**

[5] In 2002, this French-born aristocrat was awarded honorary citizenship for his role in the Revolutionary War, which included lobbying for French support and commanding troops at Yorktown.

ANSWER: Marie-Joseph Paul Yves Roch Gilbert du **Motier**, Marquis de **Lafayette** (accept either underlined part)

[5] The last person to date who has obtained honorary citizenship is this Spaniard, who distinguished himself at the Battle of Pensacola and gave his name to a large city in Texas.

ANSWER: Bernardo de **Gálvez**, 1st Viscount of **Galveston** (accept either underlined part) <VB>

18. Three bonuses on a school of history. For five points each:

[5] Which school of historians believed that it was just as important to have sturdy boots to conduct field work in as it was to be well read? They were heavily influenced by the nascent social sciences, and produced notable works such as Marc Bloch’s *Feudal Society*.

ANSWER: the **Annales** School

[5] One of the features of the Annales [ah-NAL] School is a focus on which perspective on historical writing that emphasises structural change over evental history? Braudel [broad-ELL] popularised this specific French term in the 1958 article *History and Social Science: [This term]*.

ANSWER: **longue durée**

[5] The Annales School emphasised what set of social practices in the explanation of historical change? Braudel’s first volume of *Civilisation and Capitalism* is dedicated to a study of this broad set of practices such as eating, sleeping, working and playing.

ANSWER: **everyday life** (or **daily life** or **daily routine**, do not accept anything like “social structure” etc.) <CH>

19. Three bonuses on characters in Monteverdi operas. For five points each:

[5] Who sings the duet *Pur ti miro, pur ti godo* in the final scene of the opera she appears in? It chronicles her rise from mistress of Nero to her crowning as empress.

ANSWER: **Poppea**

[5] Because it was published independently as a monody, whose lament *Lasciatemi morire* has survived, unlike the rest of the opera? The use of dominant sevenths punctuates this character’s contrasting emotions of despair and longing towards Theseus.

ANSWER: **Ariadne** (or **Arianna**)

[5] Who is the protagonist of Monteverdi's earliest opera? Although he seduces Charon and Proserpina, this character mourns the loss of his loved one in a soliloquy before ascending to the heavens.

ANSWER: **Orpheus** (or **Orfeo**) <DA>

20. Three bonuses on a piece of legislation. For five points each:

[5] What is this EU law that is designed to safeguard any personal data you might share with organisations? In the case of Brexit it will be supplanted with the Data Protection Act 2018.

ANSWER: **General Data Protection Regulation** (accept **GDPR**)

[5] GDPR requires that this transformation, examples of which are encryption and tokenization, is applied to stored data. Unlike its stronger analogue, it is not irreversible.

ANSWER: **pseudonymisation**

[5] GDPR is just one part of this larger European policy directed at simplifying access to online services. Some of its current achievements include abolishing roaming charges across the EU and unifying the standards for electronic identification via the eIDAS regulation.

ANSWER: **Digital Single Market** <VB>